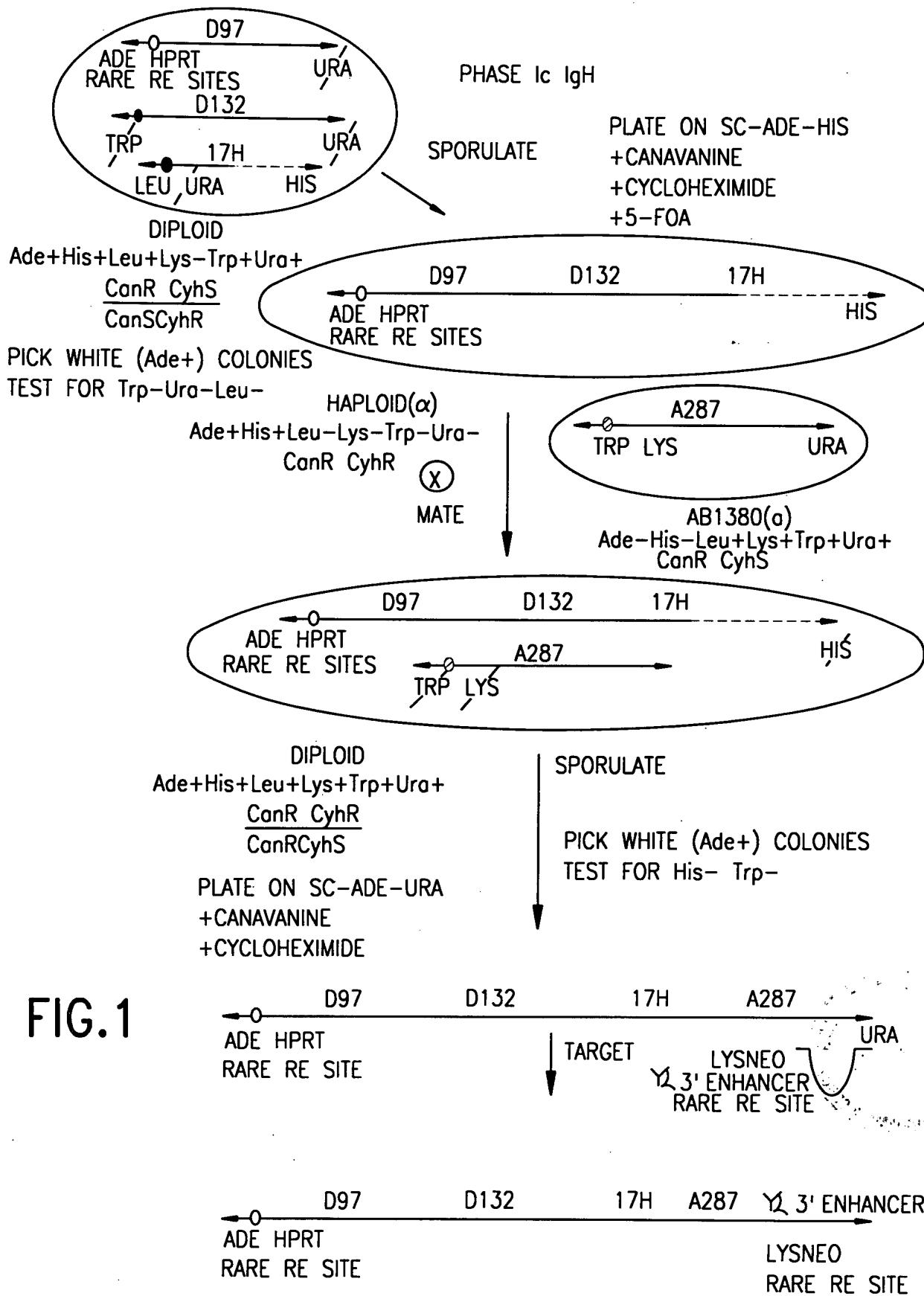
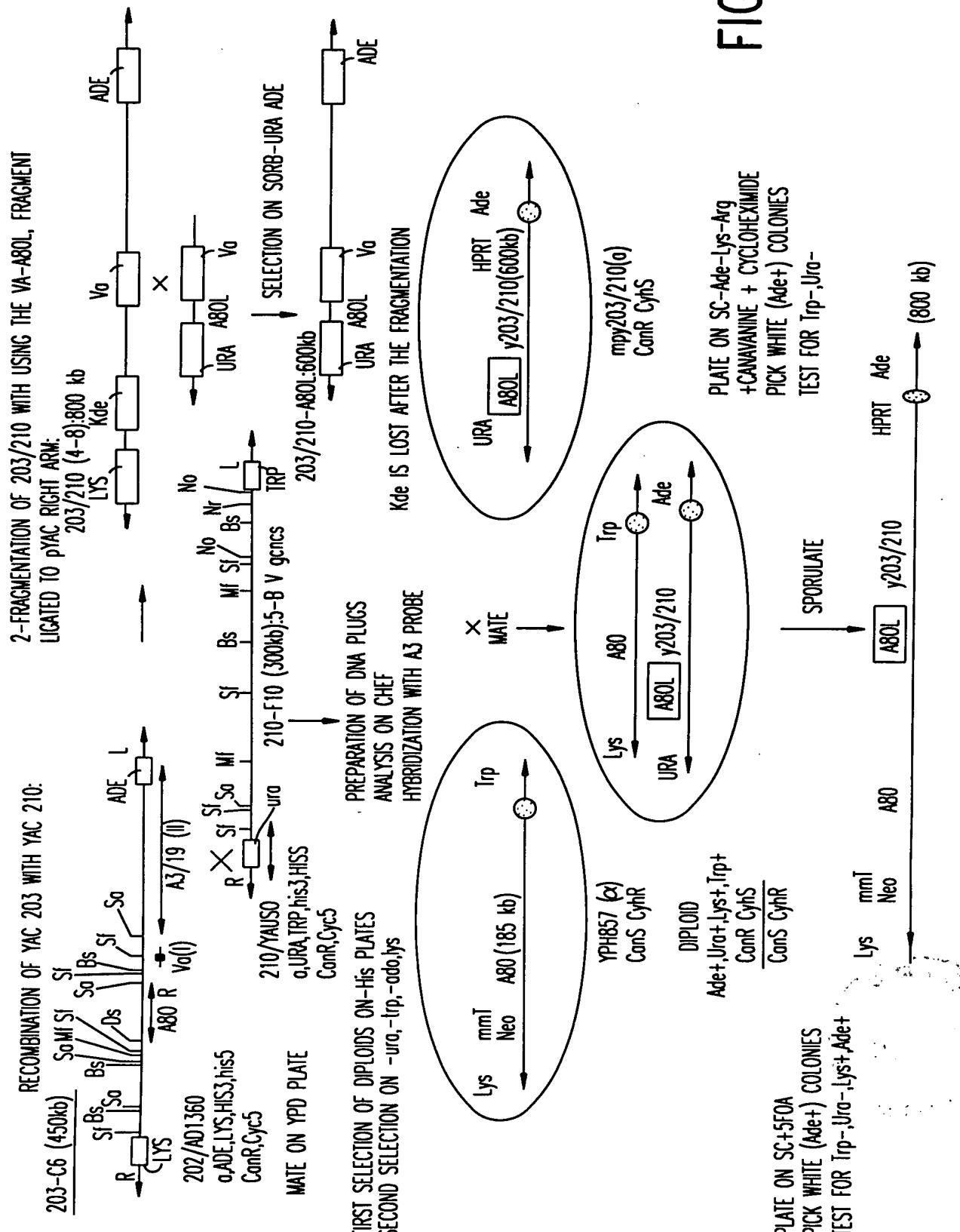


APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS SUBCLASS

6150584

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APPROVED, BY DRAFTSMAN	O.G. FIG.
	CLASS      SUBCLASS

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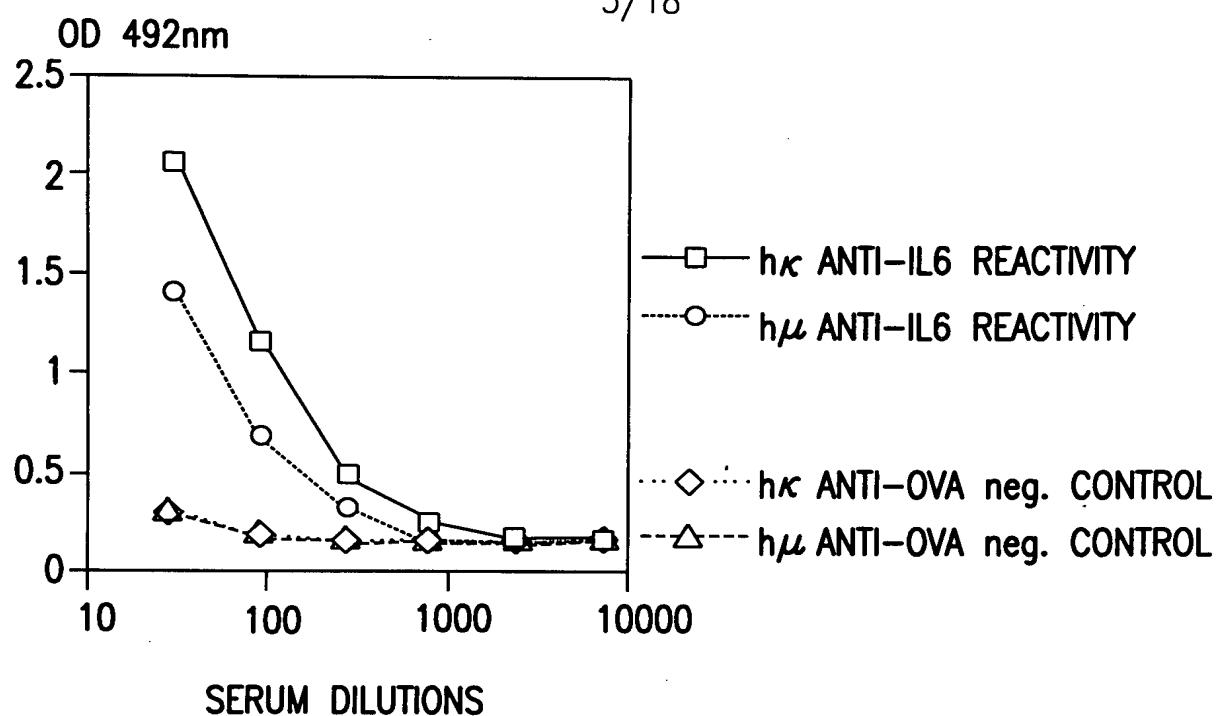


FIG.3

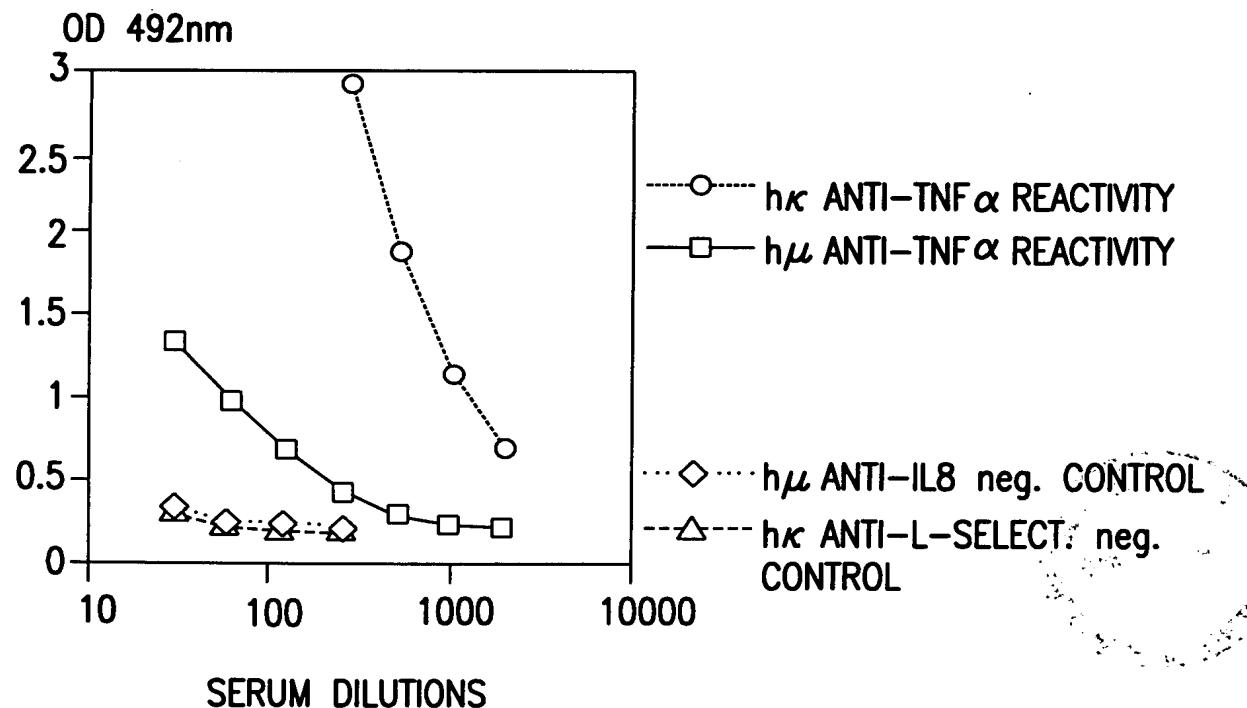


FIG.4

APPROVED BY DRAFTSMAN	O.G. FIG.
	CLASS   SUBCLASS

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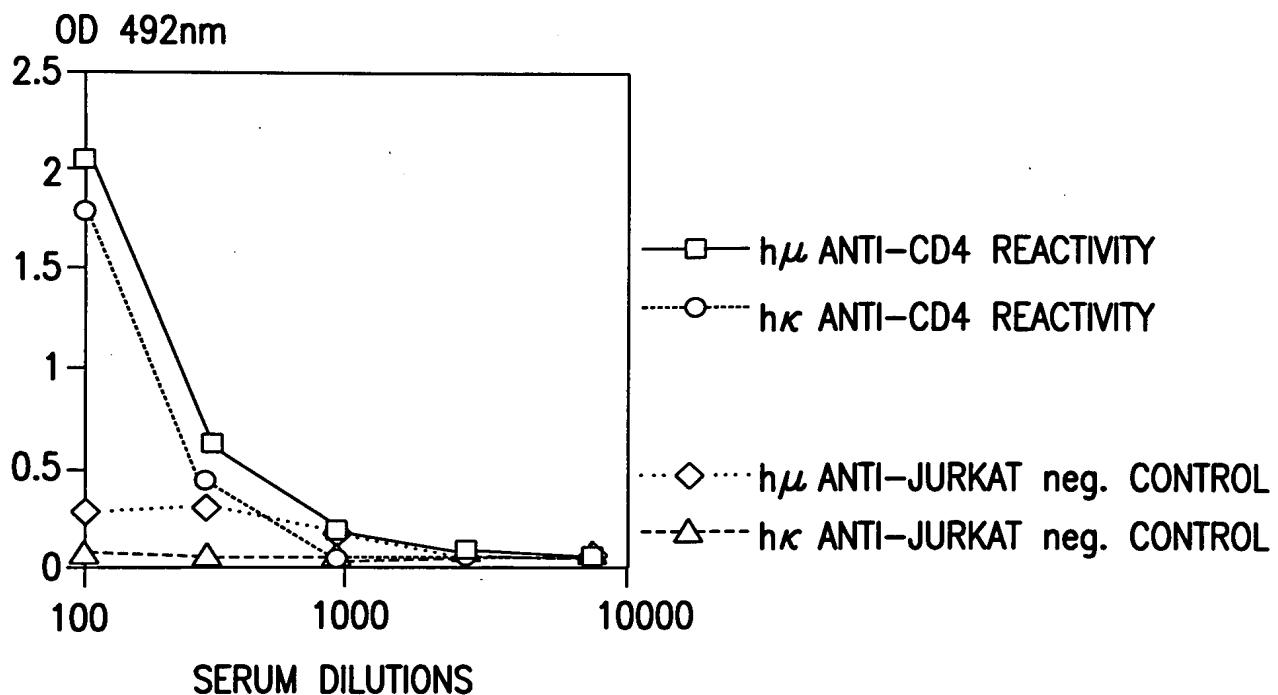


FIG.5

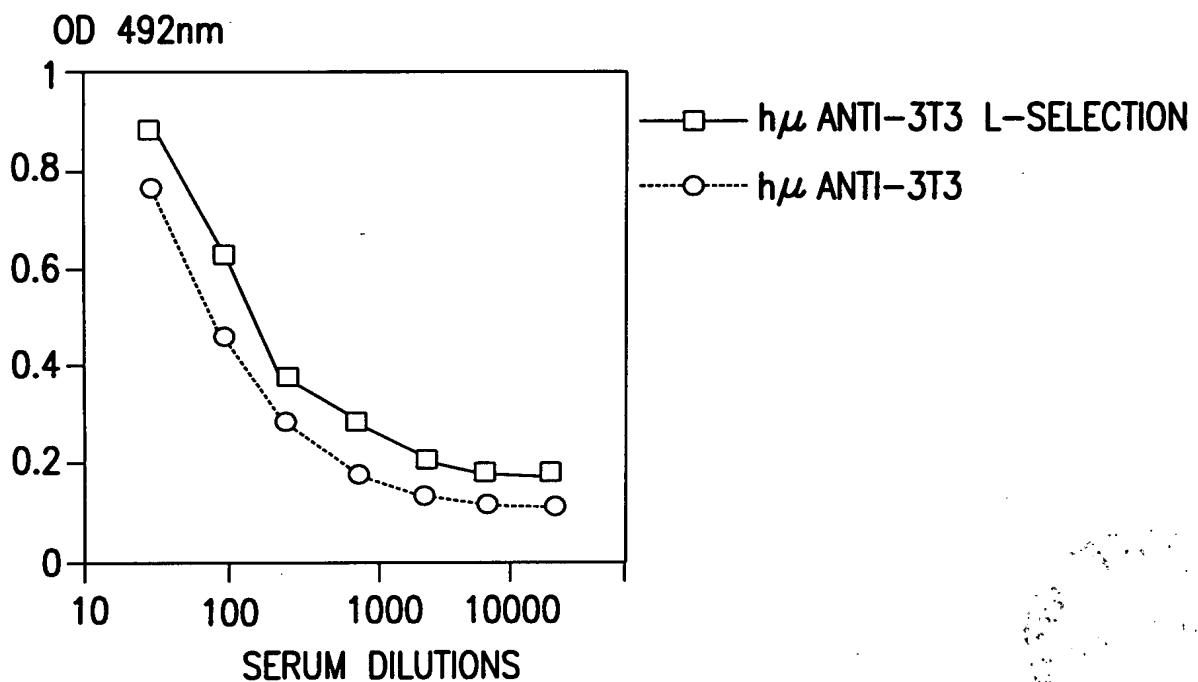


FIG.6

APPROVED	O.G. FIG.
BY	
DRAFTSMAN	
	CLASS      SUBCLASS

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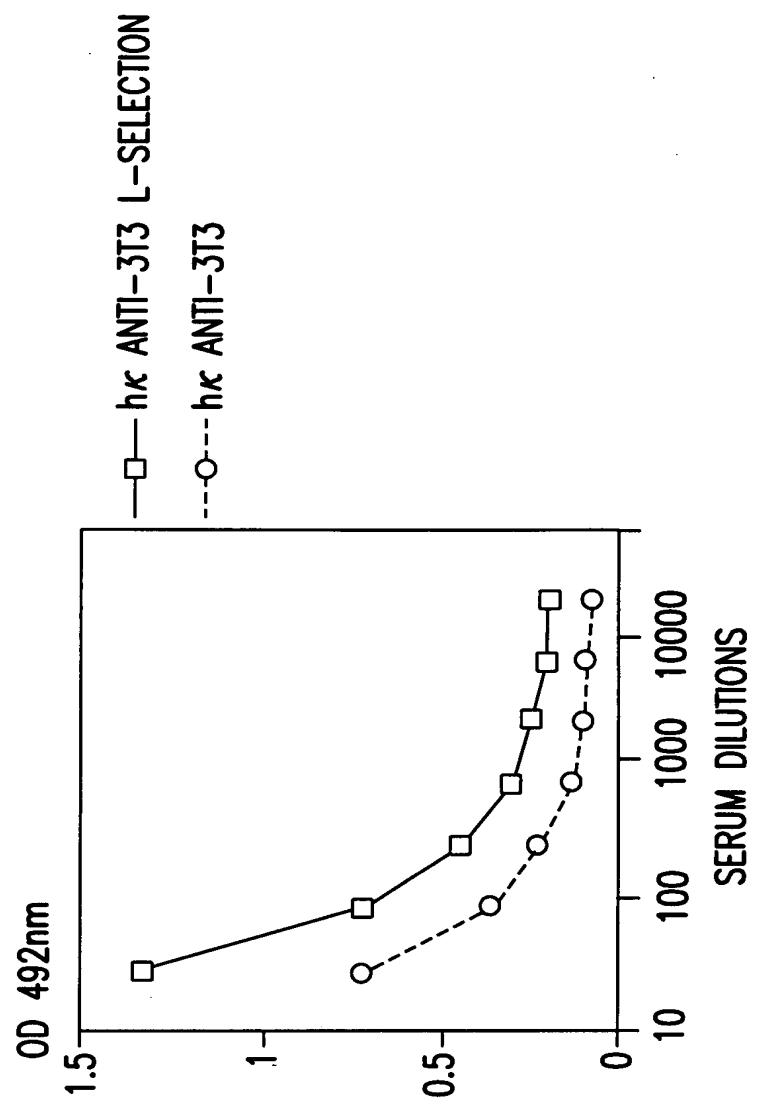


FIG.7

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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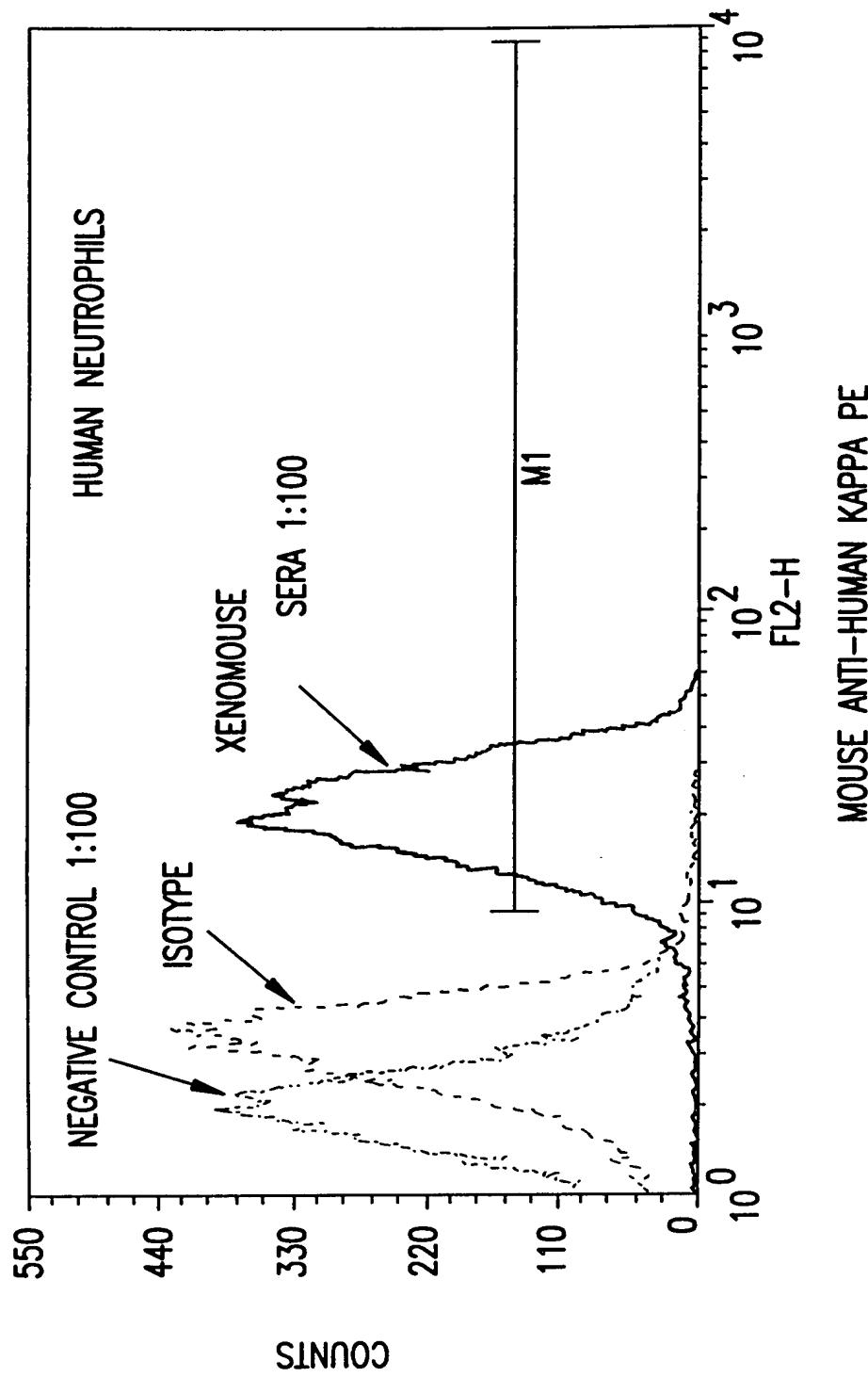


FIG.8

APPROVED BY <b>DRAFTSMAN</b>	O.G. FIG.	CLASS	SUBCLASS
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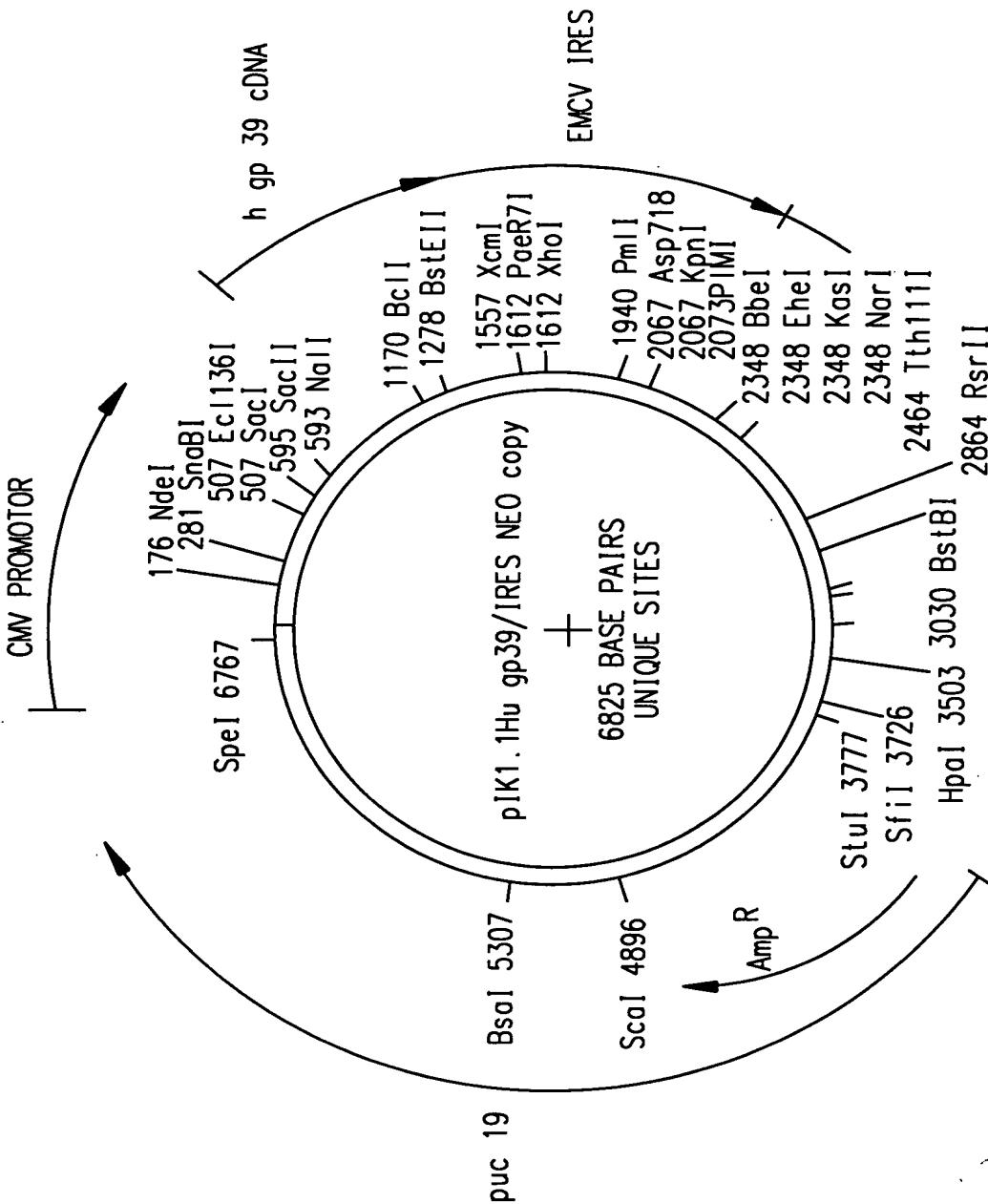


FIG. 9

APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS    SUBCLASS

OD 492nm

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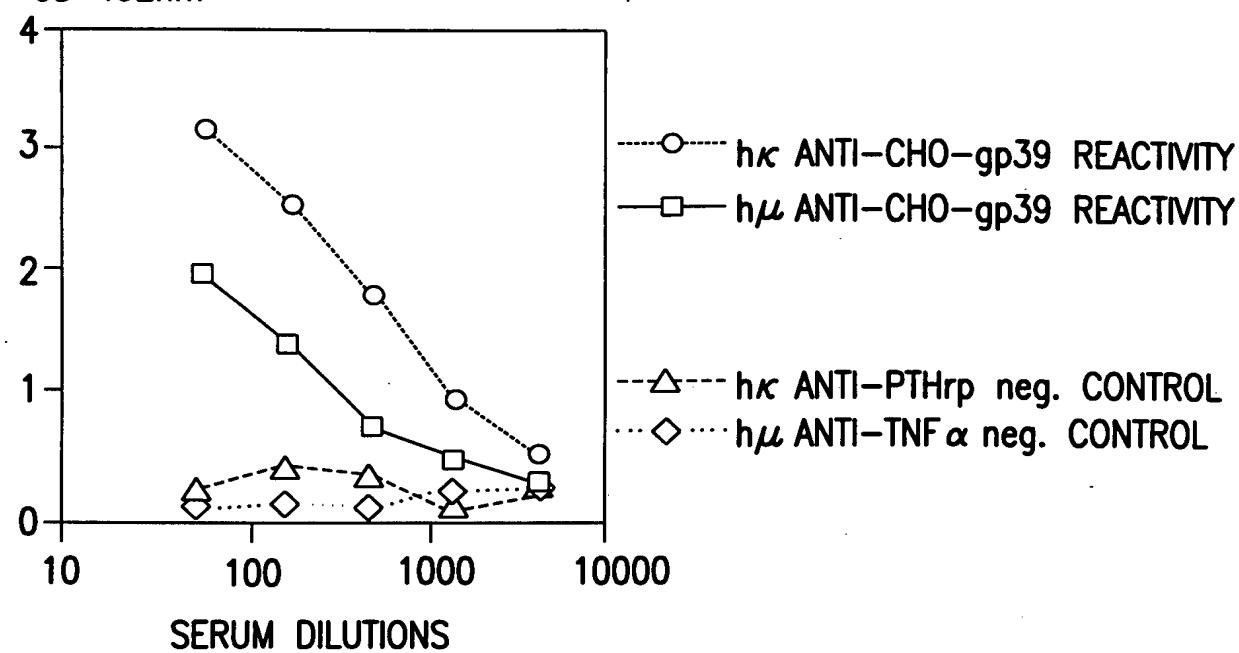


FIG.10

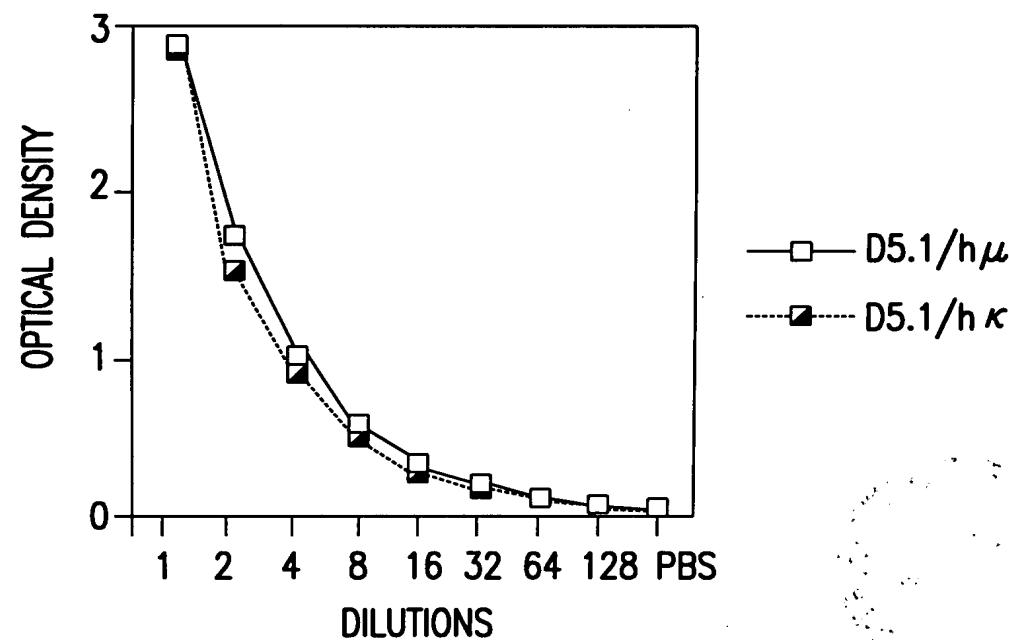


FIG.11

APPROVED BY DRAFTSMAN	D.G. FIG.
	CLASS   SUBCLASS

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CDR1

Germline	VH6	AGACCCCTCTC	ACTCACCTGT	GCCATCTCCG	GGGACAGTGT	CTCTAGCAAC	50
Hybridoma	D5. 1.4	AGACCCCTCTC	ACTCACCTGT	GCCATCTCCG	GGGACAGTGT	CTCTAGCGAC	50
Germline	JH4	—	—	—	—	—	
Germline	D(N1)	—	—	—	—	—	
Germline	hMu	—	—	—	—	VH6	

CDR2

Germline	VH6	AGTGCTGCTT	GGAACTGGAT	CAGGCAGTCC	CCATCGAGAG	GCCTTGAGTG	100
Hybridoma	D5. 1.4	AGTGCTGCTT	GGAACTGGAT	CAGGCAGTCC	CCATCGAGAG	GCCTTGAGTG	100
Germline	JH4	—	—	—	—	—	
Germline	D(N1)	—	—	—	—	—	
Germline	hMu	—	—	—	—	VH6	

VH6

Germline	VH6	GCTGGGAAGG	ACATACTACA	GGTCCAAGTG	GTATAATGAT	TATGCAGTAT	150
Hybridoma	D5. 1.4	GCTGGGAAGG	ACATACTACA	GGTCCAAGTG	GTATAATGAT	TATGCAGTTT	150
Germline	JH4	—	—	—	—	—	
Germline	D(N1)	—	—	—	—	—	
Germline	hMu	—	—	—	—	VH6	

VH6

Germline	VH6	CTGTGAAAAG	TCGAATAACC	ATCAACCCAG	ACACATCCAA	GAACCAAGTTC	200
Hybridoma	D5. 1.4	CTGTGAAAAG	TCGAATAACC	ATCAACCCAG	ACACATCCAA	GAACCAAGTTC	200
Germline	JH4	—	—	—	—	—	
Germline	D(N1)	—	—	—	—	—	
Germline	hMu	—	—	—	—	VH6	

VH6

Germline	VH6	TCCCTGCAGC	TGAACCTGT	GAATCCCGAG	GACACGGCTG	TGTATTACTG	250
Hybridoma	D5. 1.4	TCCCTGCAGC	TGAACCTGT	GAATCCCGAG	GACACGGCTG	TGTATTACTG	250
Germline	JH4	—	—	—	—	—	
Germline	D(N1)	—	—	—	—	—	
Germline	hMu	—	—	—	—	VH6	

VH6

Germline	VH6	TGCAAGAGA-	—	—	—	—	259
Hybridoma	D5. 1.4	TGCAAGAGAT	ATAGCAG TGG	CTGGCGTCCT	CTTGACTGC	TGGGGCCAGG	300
Germline	JH4	—	—	—	—	—	20
Germline	D(N1)	—	T ATAGCAGCAG	CTGG—	—	—	15
Germline	hMu	—	—	—	—	—	

VH6 —> DN1 —> JH4 —>

FIG.12A

APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS SUBCLASS

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Germline	VH6	_____	_____	_____	_____	_____	259
Hybridoma	D5. 1.4	GAACCCCTGGT	CACCGTCTCC	TCAGGGAGTG	CATCCGCCCC	AACCCTTTTC	350
Germline	JH4	GAACCCCTGGT	CACCGTCTCC	TCA	_____	_____	43
Germline	D(N1)	_____	_____	_____	_____	_____	15
Germline	hMu	_____	_____	GGGAGTG	CATCCGCCCC	AACCCTTTTC	27
		JH4	— —	hμ	—	—	

Germline	VH6	_____	_____	_____	_____	_____	259
Hybridoma	D5. 1.4	CCCCTCGTCT	CCTGTGAGAA	TTCCCCGTGC	GATACGAGCA	GCCTGGCCGT	400
Germline	JH4	_____	_____	_____	_____	_____	43
Germline	D(N1)	_____	_____	_____	_____	_____	15
Germline	hMu	CCCCTCGTCT	CCTGTGAGAA	TTCCCCGTGC	GATACGAGCA	GCCTGGCCGT	77
		hμ	—→				

FIG.12B

APPROVED BY DRAFTSMAN	O.G. FIG.
	CLASS SUBCLASS

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Germline B3 GACATCGTGA TGACCCAGTC TCCAGACTCC CTGGCTGTGT CTCTGGCGA

Hybridoma D5 1.4 \_\_\_\_\_

Germline JK3 \_\_\_\_\_

Germline CK \_\_\_\_\_

Germline B3 GAGGCCACC ATCAACTCCA AGTCCAGCCA GAGTGTTTA TACACCTCCA

Hybridoma D5 1.4 ACC ATCAAGTCCA AGTCCAGCCA GAGTGTTTG TACACCTCCA

Germline JK3 \_\_\_\_\_

Germline CK \_\_\_\_\_

CDR1

B3

Germline B3 ACAATAAGAA CTACTTAGCT TGGTACCAGC AGAAACCAGG ACAGCCTCCT

Hybridoma D5 1.4 GCAATAAGAA CTACTTAGCT TGGTACCAGC AGAAACCAGG ACAGCCTCCT

Germline JK3 \_\_\_\_\_

Germline CK \_\_\_\_\_

B3

CDR2

Germline B3 AAGCTCTCA TTTACTGGGC ATCTACCCGG GAATCCGGGG TCCCTGACCG

Hybridoma D5 1.4 AAATCTCA TTTACTGGGC ATCTACCCGG GAATCCGGGG TCCCTGACCG

Germline JK3 \_\_\_\_\_

Germline CK \_\_\_\_\_

B3

Germline B3 ATTCACTGGC AGCGGGTCTG GGACAGATT CACTCTCACC ATGGCAGCC

Hybridoma D5 1.4 ATTCACTGGC AGCGGGTCTG GGACAGATT CACTCTCACC ATGGCAGCC

Germline JK3 \_\_\_\_\_

Germline CK \_\_\_\_\_

B3

Germline B3 TGCAGGCTGA AGATGTGGCA GTTTATTACT GTCAGCAATA TTATACTAT

Hybridoma D5 1.4 TGCAGGCTGA AGATGTGGCA GTTTATTACT GTCAGCAATA TTATACTAT

Germline JK3 \_\_\_\_\_

Germline CK \_\_\_\_\_

B3

Germline B3 CC\_\_\_\_\_

Hybridoma D5 1.4 CCATTCAATT TCGGCCCTGG GACCAAGTG GATATCAAAC GAACTGTGGC

Germline JK3 ATTCACTT TCGGCCCTGG GACCAAGTG GATATCAAAC \_\_\_\_\_

Germline CK \_\_\_\_\_

GAACTGTGGC

JK3

CK

FIG.13A

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

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Germline B3	_____	_____	_____	_____	_____	_____
Hybridoma D5 1.4	TGCACCATCT	GTCTTCATCT	TCCCCGCCATC	TGATGAGCAG	TTGAAATCTG	
Germline JK3	_____	_____	_____	_____	_____	_____
Germline CK	TGCACCATCT	GTCTTCATCT	TCCCCGCCATC	TGATGAGCAG	TTGAAATCTG	CK →
Germline B3	_____	_____	_____	_____	_____	_____
Hybridoma D5 1.4	GAAC TGCCCTC	TGTT GTGTGC	CTGCTGAATA	ACTT CTATCC	CAGAGAGGCC	
Germline JK3	_____	_____	_____	_____	_____	_____
Germline CK	GAAC TGCCCTC	TGTT GTGTGC	CTGCTGAATA	ACTT CTATCC	CAGAGAGGCC	CK →
Germline B3	_____	_____	_____	_____	_____	_____
Hybridoma D5 1.4	AAAGTACAGT	GGAAGGTGGA	TAACGCCCTC	CAATCGGGTT	GGGGAAAAAA	
Germline JK3	_____	_____	_____	_____	_____	_____
Germline CK	AAAGTACAGT	GGAAGGTGGA	TAACGCCCTC	CAATCGGGT-	_____	CK →

FIG.13B

APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS SUBCLASS

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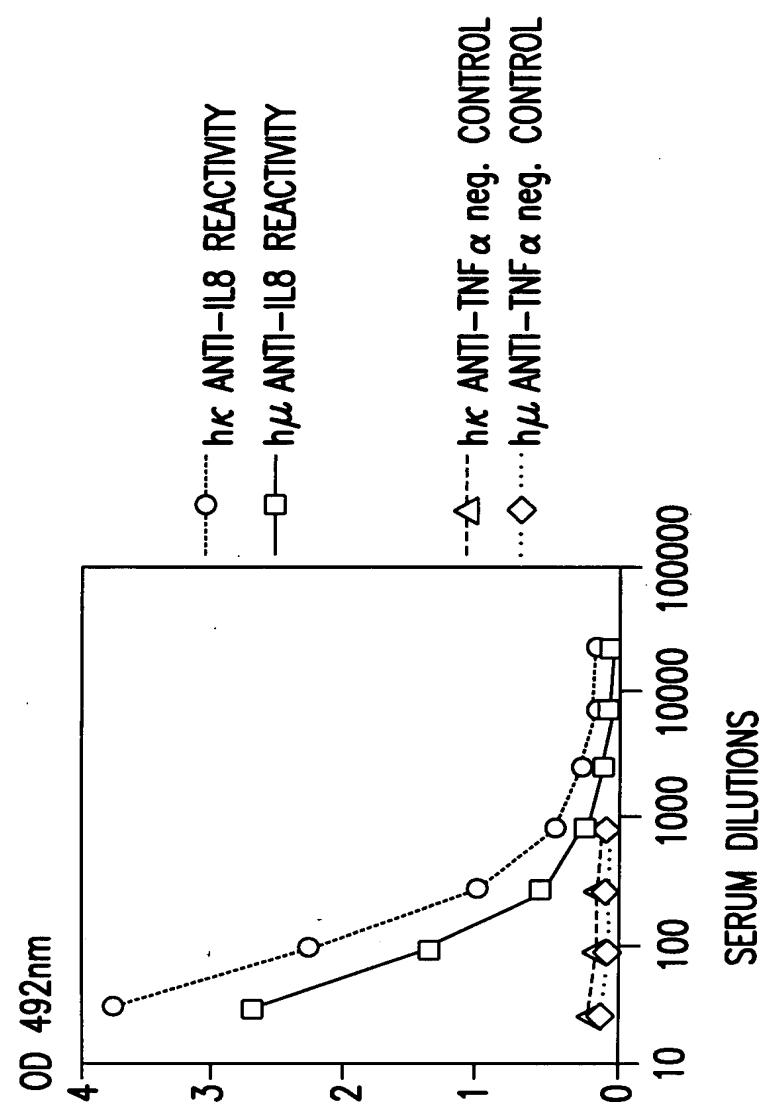


FIG. 14

APPROVED	O.G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

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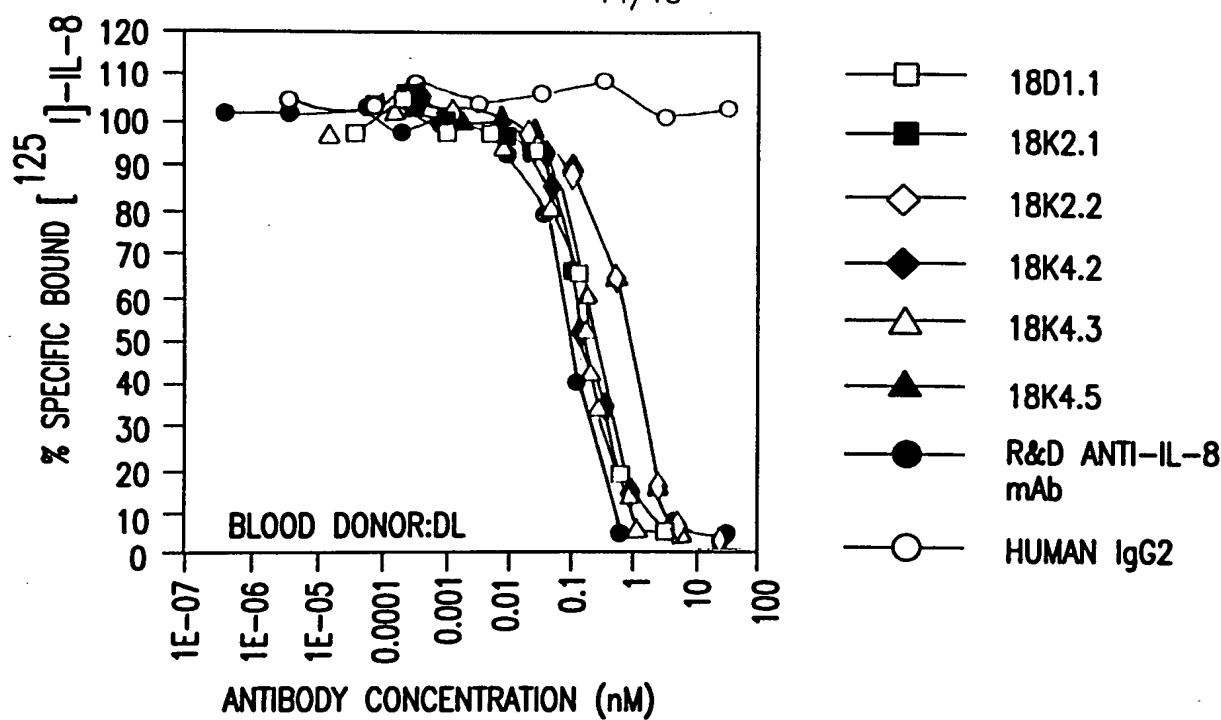


FIG.15A

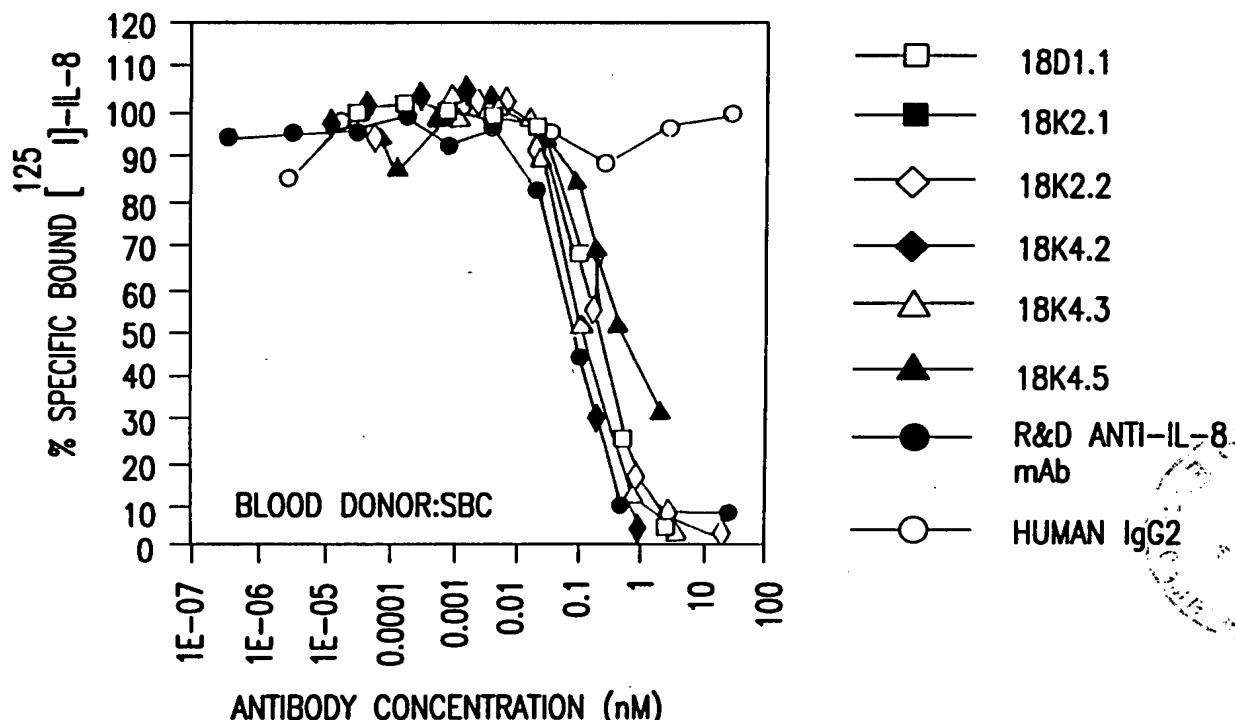


FIG.15B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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[CCTGTCCCTCACCTGCGCTGTCTATGGTGGTCCTTCAGTGGTTACTACTGGAGCTGGATCCGCC  
AGCCCCCAGGGAAAGGGACTGGAGTGGATTGGGAAATCAATCAAAGTGGAACACCAATTACAA  
CCCGTCCCTCAAGAGTCGAGTCATCATATCAATAGACACGTCCAAGACCCAGTTCTCCCTGAAGT  
TGAGCTCTGTGACCGCCGCGGACACGGCTGTGTATTACTGTGCGAGAGA] [GACTCCCC] [ATGCT  
TTTGATATCTGGGCCAAGGGACAATGGTCACCGTCTTCAG] CCTCCACCAAGGGCCATCGG  
TCTTCCCCCTGGGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GCCCTGGCTGCCTG  
GTCAAGGACTACTTCC

## FIG. 16A

[CAGTCTCCATCCTCCCTGTCTGCATCTGTAGGGCACAGAGTCACCATCACTGCCAGGCAGTC  
AGGACATTAGTAAGTTTTAAGTTGGTTAACAGAAACCAGGGAAAGCCCCTAAACTCCTGATC  
TACGGTACATCCTATTGGAAACCGGGTCCCATCAAGTTCAAGTGGATCTGGACAGA  
TTTACTCTCACCATCAGCAGCCTGCAGCCTGAAGATGTTCAACATATTCTGTAACAGNATG  
ATGATCTCCC] [ATACACTTCGGCCCTGGACCAAAGTGGATATCAAAC] GAACTGTGGCTGCAC  
CATCTGTCTTCATCTTCCCACATCTGATGAGCAGTTGAAATCTGGAACTGCCCTGTTGTGCC  
TGCTGAATAACTCTATCCAGAGAGGCCAAAGTACAGTGGAGGTGGATAACGCC

## FIG. 16B

APPROVED BY DRAFTSMAN	O.G. FIG.
	CLASS      SUBCLASS

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[AGGTCCCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTCAGTAGCTATGGCATGCACTGGNT  
 CCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGTGGCAGAAATATCATATGATGGAAGTAATAA  
 TACTATGTAGACTCCGTGAAGGGCCGACTCACCATCTCCAGAGACAATTCCAAGAACACGCTGT  
 ATCTGCAAATGAACAGCCTGAGAGCTGAGGACACGGCTGTGTATTACTGTGCGAGAGA][CCGAC  
 TGGGGAT][CTTGACTACTGGGCCAGGGAACCCCTGGTCACCGTCTCCTCAG]CCTCCACCAAGG  
 GCCCATCGGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCAGAGCACAGC(GC)GGCCCT  
 GGGCTGCCTGGTCCAAGGACTACTTCCCCGAACCGGTGACGGTGTGGAACTCAGGCGCTC  
 TGACCAG

## FIG. 16C

[CTGACNCAGTCTCCAGACTCCCTGGCTGTCTCTGGCGAGAGGGCCACCATCAACTGCAAGT  
 CCAGCCAGAGTGTGTTTATACATCTCAAACAATAAAACTACTTAGCTTGGTACCGCAGAAACCA  
 GGACAGTCTCTAAACTGCTCATTACTGGGCATCTACCCGGAAATCCGGGGTCCCTGACCGATT  
 CAGTGGCAGCGGGCTGGGACAGATTCACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTG  
 GCAGTTTATTACTGTCAACAGTATTATGATACTCC][ATTCACTTCGGCCCTGGACCAAAGTGG  
 ATATCAAAC]GAACTGTGGCTGCACCATCTGTCTTCATCTTCCGCCATCTGATGAGCAGTTGAAA  
 TCTGGAACTGCCTCTGTTGTGCCTGCTGAATAACTCTATCCCAGAGAGGCCAAAGTACAGTG  
 GAAGGTGGNTAACGCCCA

## FIG. 16D

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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[TCCCTCACCTGCGCTGTCTATGGTGGTCCTCAGTGGTTACTACTGGACCTGGATCCGCCAGCC  
 CCCAGGGAAGGGGCTGGAGTGGATTGGGGAAATCATTCATCATGGAAACACCAACTACAACCCG  
 TCCCTCAAGAGTCGAGTCTCCATATCAGTTGACACGTCCAAGAACCAACTACAACCCG  
 CTCTGTGACCGCCGGACACGGCTGTATTACTGTGCGAGAGG][GGGAGCAGTGGCTGCG][T  
 TTGACTACTGGGCCAGGAACCCTGGTCACCGTCTCCTCAG]CCTCCACCAAGGGCCATCGGT  
 CTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC(GC)GGCCCTGGCTGCCTG  
 GTCAAGGACTACTTCCCCGAACCGGTGACGGTGTGGAACTCAGGCCTTGACCAGCGC  
 GTGCACACCTTCCCCA

### FIG. 16E

[TGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTGCCAGGC  
 GAGTCAGGACATTAGTAACTATTTAAATTGGTATCAACAGAAAGCAGGGAAAGCCCCTAAGGTCC  
 TGATCTACGCTGCATCCAATTGGAACGCAGGGTCCCATCAAGGTTCAAGTGGAAAGTGGATCTGGG  
 ACAGATTTACTTCACCATCAGCAGCCTGCAGCCTGAAGATATTGCAACATATTATTGTCAACA  
 CTATGATAATCT]A[CTCACTTCGGCGGAGGGACCAAGGTAGAGATCAAAC]GAACGTGGCTGC  
 ACCATCTGTCTTCATCTTCCGCCATCTGATGAGCAGTTGAAATCTGGACTGCCTCTGTTGTG  
 CCTGCTGAATAACTCTATCCCAGAGAGGCCAAAGTACAGTGGAAAGGTGG

### FIG. 16F

APPROVED BY	O.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

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AGTCTCTGAAGATCTCCTGTAAGGGTTCTGGATACAGCTTACCAGCTACTGGATCGGCTGGGTG  
 CGCCAGATGCCGGAAAGGCCTGGAGTGGATGGGATCATCTATCCTGGTACTCTGATA  
 GATACAGCCGTCTCCAAGGCCAGGTACCATCTCAGCCACAAGTCATCAGCACCGC  
 CCTGCAGTGGAGCAGCCTGAAGGCCTCGGACACGCCATGTATTACTGTGCGAGACA] [GGACGG  
 TG] [ACTCCTTGACTACTGGGCCAGGGAACCCCTGGTACCGTCTCCTCAG] CCTCCACCAAGGG  
 CCCATCGGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGC (GC) GGCCCTG  
 GGCTGCCTGGTCCAAGGACTACTTCCCCGAACCGGTGACGGTGTGGAACTCAGGCGCTCT  
 GACCAGCGCGTGCACACCTCCACTGCCA

## FIG. 16G

TGTCTGCATCTATTGGAGACAGAGTCACCATCACTTGCCGGCAAGTCAGAGCATTAGCAACTA  
 TTTAAATTGGTATCAGCAGAAACCAGGGCAAAGCCCCTAAGTTCTGATCTATGGTGCATCCAGT  
 TTGGAAAGTGGGTCCCATCANGTTAGTGGCAGTGGATCTGGACAGATTCACTCTCACCCT  
 CAGCAGCCTGCAACCTNGGATTTGCAACTTACTACTGTCAACAGAGTTACAGTAACCC] T[CTC  
 ACTTTGGCGGGACCAANGTAGAGATCAAAC] GAACTGTGGCTGCACCATCTGTCTTCATCT  
 TCCCGCCATCTGATGAGCAGTTGAAACTGGAACGCCTCTGTTGTGCTGCTGAATAACTTCT  
 ATCCCAGAGAGGCCAAAGTACA

## FIG. 16H